Name of Work: Improvements to roads and drains at Hegadenagara Surrounding Area in Ward No.06 Byatarayanapura Sub Division

MEASUREMENT SHEETS

E. Ramesh Anand

"FIRST AND FINAL BILL"

006-21-000006

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Name of Work: Improvements to roads and drains at Hegadenagara Surrounding Area in Ward No.06 Byatarayanapura Sub Division

Detailed Measurements

No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								
	Vide Premeasurement page no. 1 & 2					113.01			
					Present Qty	**113.01**	**Cum**	**226.02**	**25543.00**
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.								
	Vide Premeasurement page no. 3 to 5					597.12			3399076.00
					Present Qty	**597.12**	**Cum**	**5692.45**	**3399065.00**
3	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.								
	Vide Premeasurement page no. 6 to 8					25.51			
					Present Qty	**25.51**	**Cum**	**6034.11**	**153938.00**
									153930.00
4	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. - do - with solid concrete blocks of size 400x150x200mm								
	Vide Premeasurement page no. 9 & 10					94.92			
					Present Qty	**94.92**	**Sqm**	**1028.31**	**97608.00**
									97602.00
5	KSRB 5.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	Vide Premeasurement page no. 11					24.46			
					Present Qty	**24.46**	**Cum**	**5114.86**	**125120.00**
									125109.00
8	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications.								
	Vide Premeasurement page no. 12 to 14					782.74			799952.00
					Present Qty	**782.74**	**Cum**	**1021.99**	**799957.00**
9	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density,								
	Vide Premeasurement page no. 15 to 17					231.46			484786.00
					Present Qty	**231.46**	**Cum**	**2094.47**	**484794.00**

Contractor

Assistant Engineer

ಸಹಾಯಕ ಅಧೀಕ್ಷಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Asst. Executive Engineer,

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Name of Work: Improvements to roads and Drains at Basavalingappa badavane and Rajiv Gandhinagara and Chikkabettahalli in ward no-03 of Yelahanka Satellite Town Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
5	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.									
	Flagging Course									
	Hegdenagar									
	Main Road									
	RHS Side									
	Ch:0.00m to 30.00m	RHS	1	30.00	0.90		27.00			
	Ch:30.0m to 34.20m	RHS	1	4.20	0.90		3.78			
	2nd Main Road									
	RHS (From Main Road)									
	Ch:0.00m to 30.00m	RHS	1	30.00	0.90		27.00			
	Ch:30.0m to 38.50m	RHS	1	8.50	0.90		7.65			
	Ch:38.50m to 56.50m Gap	RHS	1	18.00						
	Ch:56.50m to 86.50m	RHS	1	30.00	0.90		27.00			
	Ch:86.50m to 95.10m	RHS	1	8.60	0.90		7.74			
	LHS (From Main Road)									
	Ch:0.00m to 17.40m	LHS	1	17.40	0.90		15.66			
	Ch:17.40m to 47.40m Gap	LHS	1	30.00						
	Ch:47.40m to 50.70m Gap	LHS	1	3.30						
	Ch:50.70m to 54.10m	LHS	1	3.40	0.90		3.06			
	Ch:54.10m to 50.70m Gap	LHS	1	9.20						
	Ch:50.70m to 82.50m	LHS	1	19.20	0.90		17.28			
	Flagging course damaged reaches									
	1st Cross Rd									
	RHS (From Main Road)									
	Ch:30.00m to 45.00m	RHS	1	15.00	0.90		13.50			
	LHS (From Main Road)									
	Ch:35.00m to 47.00m	LHS	1	12.00	0.90		10.80			
	2nd Cross Rd									
	RHS (From Main Road)									
	Ch:15.00m to 33.00m	RHS	1	18.00	0.90		16.20			
	3rd Cross Rd									
	RHS (From Main Road)									
	Ch:30.00m to 45.00m	RHS	1	15.00	0.90		13.50			
	5th Cross Rd									

190.17

Asst. Engineer

20.07.2022

Asst. Exe. Engineer,

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Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
LHS (From Main Road)									
Ch:45.00m to 57.00m	LHS	1	12.00	0.90		10.80			
RHS (From Main Road)									
Ch:35.00m to 49.00m	RHS	1	14.00	0.90		12.60			
Missing Slab									
1st Cross Rd									
	LHS	15	0.60	0.90		8.10			
	RHS	18	0.60	0.90		9.72			
2nd Cross Rd									
	LHS	10	0.60	0.90		5.40			
	RHS	8	0.60	0.90		4.32			
3rd Cross Rd									
	LHS	12	0.60	0.90		6.48			
	RHS	10	0.60	0.90		5.40			
4th Cross Rd									
	LHS	11	0.60	0.90		5.94			
	RHS	10	0.60	0.90		5.40			
5th Cross Rd									
	LHS	10	0.60	0.90		5.40			
	RHS	6	0.60	0.90		3.24			
6th Cross Rd									
	LHS	8	0.60	0.90		4.32			
	RHS	7	0.60	0.90		3.78			
					Present Qty	**281.07**	**Sqm**	**2453.62**	**689639.00**

Asst. Engineer

Asst. Exec. Engineer

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Name of Work: Improvements to roads and Drains at Basavalingappa badavane and Rajiv Gandhinagara and Chikkabettahalli in ward no-03 of Yelahanka Satellite Town Sub Division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
7	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.								
	Culvert Slab								
	Hegdenagar								
	4th Cross Rd	1	7.30	1.50		10.95			
	5th Cross Rd	1	7.30	1.50		10.95			
	6th Cross Rd	1	7.30	1.50		10.95			
	7th Cross Rd	1	6.80	1.50		10.20			
	8th Cross Rd	1	7.10	1.50		10.65			
	Deduct Old Slab	-4	0.60	1.50		-3.60			
					Present Qty	**50.10**	**Sqm**	**5688.36**	**284987.00**

Tractor

Asst. Engineer

Asst. Exec. Engineer,

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Name of Work: **Improvements to roads and drains at Hegadenagara Surrounding Area in Ward No.06 Byatarayanapura Sub Division**

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
10	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant,								
	For C.C Road								
	Hegdenagar								
	1st Cross Rd								
	Ch:0.00m to 15.00m	1	15.00	(7.10 + 7.20)/2	0.15	16.09			
	Ch:15.00m to 30.00m	1	15.00	(7.20 + 7.20)/2	0.15	16.20			
	Ch:30.00m to 45.00m	1	15.00	(7.20 + 7.20)/2	0.15	16.20			
	Ch:45.00m to 60.00m	1	15.00	(7.20 + 7.30)/2	0.15	16.31			
	Ch:60.00m to 74.10m	1	14.10	(7.30 + 7.20)/2	0.15	15.33			
	2nd Cross Rd								
	Ch:0.00m to 15.00m	1	15.00	(6.90 + 6.80)/2	0.15	15.41			
	Ch:15.00m to 30.00m	1	15.00	(6.80 + 6.80)/2	0.15	15.30			
	Ch:30.00m to 45.00m	1	15.00	(6.80 + 7.00)/2	0.15	15.53			
	Ch:45.00m to 60.00m	1	15.00	(7.00 + 7.50)/2	0.15	16.31			
	Ch:60.00m to 62.00m	1	2.00	(7.50 + 7.90)/2	0.15	2.31			
	3rd Cross Rd					166.99			

Asst. Engineer 29.07.2022

Asst. Exec. Engineer

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Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Ch:0.00m to 15.00m	1	15.00	(7.00 + 7.00)/2	0.15	15.75			
Ch:15.00m to 30.00m	1	15.00	(7.00 + 7.00)/2	0.15	15.75			
Ch:30.00m to 45.00m	1	15.00	(7.00 + 6.60)/2	0.15	15.30			
Ch:45.00m to 60.00m	1	15.00	(6.60 + 6.50)/2	0.15	14.74			
Ch:60.00m to 63.85m	1	3.85	(6.50 + 6.70)/2	0.15	3.81			
4th Cross Rd								
Ch:0.00m to 15.00m	1	15.00	(7.60 + 6.60)/2	0.15	15.98			
Ch:15.00m to 30.00m	1	15.00	(6.60 + 6.80)/2	0.15	15.08			
Ch:30.00m to 45.00m	1	15.00	(6.80 + 6.90)/2	0.15	15.41			
Ch:45.00m to 60.00m	1	15.00	(6.90 + 7.10)/2	0.15	15.75			
Ch:60.00m to 69.40m	1	9.40	(7.10 + 7.00)/2	0.15	9.94			
5th Cross Rd								
Ch:0.00m to 15.00m	1	15.00	(7.30 + 7.30)/2	0.15	16.43			
Ch:15.00m to 30.00m	1	15.00	(7.30 + 7.10)/2	0.15	16.20			
Ch:30.00m to 45.00m	1	15.00	(7.10 + 7.30)/2	0.15	16.20			
Ch:45.00m to 60.00m	1	15.00	(7.30 + 7.20)/2	0.15	16.31			
Ch:60.00m to 70.70m	1	10.70	(7.20 + 6.30)/2	0.15	10.83			
6th Cross Rd								
Ch:0.00m to 15.00m	1	15.00	(7.70 + 7.40)/2	0.15	16.99			
Ch:15.00m to 30.00m	1	15.00	(7.40 + 7.40)/2	0.15	16.65			
Ch:30.00m to 45.00m	1	15.00	(7.40 + 7.40)/2	0.15	16.65			
Ch:45.00m to 60.00m	1	15.00	(7.40 + 7.10)/2	0.15	16.31			
Ch:60.00m to 75.10m	1	15.10	(7.10 + 6.30)/2	0.15	15.18			
7th Cross Rd					215.25			

29.07.2022

Asst.Engineer

Asst.Exe.Engineer

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em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:0.00m to 15.00m	1	15.00	7.20 + 7.00 / 2	0.15	15.98			
	Ch:15.00m to 30.00m	1	15.00	7.00 + 7.40 / 2	0.15	16.20			
	Ch:30.00m to 45.00m	1	15.00	7.40 + 7.20 / 2	0.15	16.43			
	Ch:45.00m to 60.00m	1	15.00	7.20 + 7.10	0.15	16.09			
	Ch:60.00m to 75.00m	1	15.00	7.10 + 6.80 / 2	0.15	15.64			
	Ch:75.00m to 76.90m	1	1.90	6.80 + 6.80 / 2	0.15	1.94			
	8th Cross Rd								
	Ch:0.00m to 15.00m	1	15.00	7.50 + 7.20 / 2	0.15	16.54			
	Ch:15.00m to 30.00m	1	15.00	7.20 + 6.80 / 2	0.15	15.75			
	Ch:30.00m to 45.00m	1	15.00	6.80 + 6.80 / 2	0.15	15.30			
	Ch:45.00m to 60.00m	1	15.00	6.70 + 6.30 / 2	0.15	14.63			
	Ch:60.00m to 67.60m	1	7.60	6.30 + 5.70 / 2	0.15	6.84			
	Deduct Man Hole	-30	1.00	1.00 + 1.00 / 2	0.15	-4.50			3211799.00
					Present Qty	**587.06**	**Cum**	**5470.99**	**3211789.00**

9272428.00	**Total**	**9272440.00**
1112691.36	**GST 12%**	**1112692.80**
10385119.36	**Grand Total**	**10385132.80**
Round off. 10385000.00		

Asst. Engineer

Asst. Exec. Engineer

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